

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Serial No.: 10/517,090  
Filed: December 6, 2004 as Express Mail No. EV488818929US  
Int'l Application No. PCT/US03/18004  
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Applicant: Michail Tsatsanis, Mark A. Erickson, Sunil Shah  
Title: MULTILINE TRANSMISSION IN COMMUNICATION SYSTEMS  
Attorney Docket: VOY-023US

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**SUBSTITUTE RESPONSE TO NON-FINAL  
OFFICE ACTION MAILED DECEMBER 13, 2006**

This response replaces the "Response to Non-Final Office Action Mailed December 13, 2006," filed on March 12, 2007, which is withdrawn. This paper is responsive to the Non-final Office Action mailed December 13, 2006. The Examiner has indicated that claims 1-3, 5-15, 17-27, 29-39, and 41-47 are pending in the application. Claims 1-3, 5-7, 13-15, 17-19, 25-27, 29-31, 37-39, 41 and 42 stand rejected. Claims 8-12, 20-24, 32-36, and 43-47 stand objected to. The present response includes the following:

**Amendments to the Claims** begin on page 2 of this Amendment.

**Remarks** begin on page 15 of this Amendment.